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NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 19	APOLLIT offering free connect time in April 2003
NEWS	28	Mar 20	EVENTLINE will be removed from STN
NEWS	29	Mar 24	PATDPAFULL now available on STN
NEWS	30	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	31	Mar 24	Indexing from 1957 to 1966 added to records in CA/CAPLUS
NEWS	32	Apr 11	Display formats in DGENE enhanced
NEWS	33	Apr 14	MEDLINE Reload
NEWS	34	Apr 17	Polymer searching in REGISTRY enhanced
NEWS EXPRESS			April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED <u>01 APRIL 2003</u>
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ENTRY	SESSION
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FULL ESTIMATED COST

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FILE 'LIFESCI' ENTERED AT 15:59:33 ON 17 APR 2003
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=> S INJECT* AND DISC AND GROWTH FACTOR
L1 0 INJECT* AND DISC AND GROWTH FACTOR

=> S GROWTH FACTOR AND DISK
L2 161 GROWTH FACTOR AND DISK

=> DUP REM L2
PROCESSING COMPLETED FOR L2
L3 121 DUP REM L2 (40 DUPLICATES REMOVED)

=> D 1

L3 ANSWER 1 OF 121 MEDLINE
AN 2003104069 MEDLINE
DN 22503750 PubMed ID: 12616155
TI The potential and limitations of a cell-seeded collagen/hyaluronan scaffold to engineer an intervertebral disc-like matrix.
AU Alini Mauro; Li Wei; Markovic Paul; Aebi Max; Spiro Robert C; Roughley Peter J
CS Orthopaedic Research Laboratory, Royal Victoria Hospital, McGill University, Montreal, Canada.
NC AR44153 (NIAMS)
SO SPINE, (2003 Mar 1) 28 (5) 446-54; discussion 453.
Journal code: 7610646. ISSN: 1528-1159.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200303
ED Entered STN: 20030306
Last Updated on STN: 20030325
Entered Medline: 20030324

=> S intervertebral disc AND GROWTH FACTOR?

L4 74 INTERVERTEBRAL DISC AND GROWTH FACTOR?

=> DUP REM L4

PROCESSING COMPLETED FOR L4

L5 53 DUP REM L4 (21 DUPLICATES REMOVED)

=> S L5 AND TRANSFORMING

L6 21 L5 AND TRANSFORMING

=> D 1

L6 ANSWER 1 OF 21 MEDLINE
AN 2003104069 MEDLINE
DN 22503750 PubMed ID: 12616155
TI The potential and limitations of a cell-seeded collagen/hyaluronan scaffold to engineer an **intervertebral disc**-like matrix.
AU Alini Mauro; Li Wei; Markovic Paul; Aebi Max; Spiro Robert C; Roughley Peter J
CS Orthopaedic Research Laboratory, Royal Victoria Hospital, McGill University, Montreal, Canada.
NC AR44153 (NIAMS)
SO SPINE, (2003 Mar 1) 28 (5) 446-54; discussion 453.
Journal code: 7610646. ISSN: 1528-1159.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200303
ED Entered STN: 20030306
Last Updated on STN: 20030325
Entered Medline: 20030324

=> D 2

L6 ANSWER 2 OF 21 MEDLINE
AN 2003038189 MEDLINE
DN 22433627 PubMed ID: 12546390
TI Age-related changes in expression of **transforming growth factor**-beta and receptors in cells of intervertebral discs.
AU Matsunaga Shunji; Nagano Satoshi; Onishi Toshiyuki; Morimoto Norio; Suzuki Shusaku; Komiya Setsuro
CS Department of Orthopaedic Surgery, Faculty of Medicine, Kagoshima University, Kagoshima, Japan.. shunji@m.kufm.kagoshima-u.ac.jp
SO JOURNAL OF NEUROSURGERY, (2003 Jan) 98 (1 Suppl) 63-7.
Journal code: 0253357. ISSN: 0022-3085.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 200302
ED Entered STN: 20030128
Last Updated on STN: 20030214
Entered Medline: 20030213

=> D 3

L6 ANSWER 3 OF 21 MEDLINE
AN 2002680637 IN-PROCESS
DN 22328676 PubMed ID: 12440928
TI Expression of type II procollagens during development of the human **intervertebral disc**.

AU McAlinden A; Zhu Y; Sandell L J
 CS Department of Orthopaedic Surgery, Washington University at Barnes-Jewish
 Hospital, Mail Stop 90-34-674, 216 South Kingshighway, St. Louis, MO
 63110, U.S.A.
 SO BIOCHEMICAL SOCIETY TRANSACTIONS, (2001 Dec) 30 (6) 831-8.
 Journal code: 7506897. ISSN: 0300-5127.
 CY England: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS IN-PROCESS; NONINDEXED; Priority Journals
 ED Entered STN: 20021121
 Last Updated on STN: 20021213

=> D 4

L6 ANSWER 4 OF 21 MEDLINE
 AN 2002219371 MEDLINE
 DN 21952735 PubMed ID: 11956921
 TI Cytokines and **growth factors** in the protruded
intervertebral disc of the lumbar spine.
 AU Specchia Nicola; Pagnotta Alessia; Toesca Amelia; Greco Francesco
 CS Department of Orthopaedics, University of Ancona, Largo Cappelli 1, 60100,
 Italy.. specchia@popcsi.unian.it
 SO EUROPEAN SPINE JOURNAL, (2002 Apr) 11 (2) 145-51.
 Journal code: 9301980. ISSN: 0940-6719.
 CY Germany: Germany, Federal Republic of
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200206
 ED Entered STN: 20020417
 Last Updated on STN: 20030105
 Entered Medline: 20020606

=> D 5

L6 ANSWER 5 OF 21 MEDLINE
 AN 2002206573 MEDLINE
 DN 21937849 PubMed ID: 11940377
 TI Adenovirus-mediated TGF-beta(1) gene transfer to human degenerative lumbar
intervertebral disc cells.
 AU Zhao Jian; Jia Lianshun; Chen Deyu; Xiao Jian; Pan Xin; Jing Xin
 CS Department of Orthopaedics, Changzheng Hospital, Second Military Medical
 University, Shanghai 200003, China... drzhaojian@163.com
 SO CHINESE MEDICAL JOURNAL, (2002 Mar) 115 (3) 409-12.
 Journal code: 7513795. ISSN: 0366-6999.
 CY China
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200205
 ED Entered STN: 20020410
 Last Updated on STN: 20020502
 Entered Medline: 20020501

=> D 6

L6 ANSWER 6 OF 21 MEDLINE
 AN 2002171854 MEDLINE
 DN 21900755 PubMed ID: 11904071
 TI Construction of recombinant adenoviral vector Ad-CMV-hTGFbeta1 for

reversion of **intervertebral disc** degeneration by gene transfer.

AU Tan Jiangwei; Hu Yougu; Zheng Hongjun; Li Shuzhong
CS Institute of Traumatology and Orthopedics of Shandong Province, Affiliated
Hospi tal of Qingdao Medical College, Qingdao University, Qingdao 266003,
China.. gkyj@gdumh.qd.sd.cn
SO Chin J Traumatol, (2002 Apr) 5 (2) 97-102.
Journal code: 100886162. ISSN: 1008-1275.
CY China
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200205
ED Entered STN: 20020321
Last Updated on STN: 20020515
Entered Medline: 20020514

=> D 7

L6 ANSWER 7 OF 21 MEDLINE
AN 2001572258 MEDLINE
DN 21537325 PubMed ID: 11679815
TI New use of a three-dimensional pellet culture system for human
intervertebral disc cells: initial characterization and
potential use for tissue engineering.
AU Yung Lee J; Hall R; Pelinkovic D; Cassinelli E; Usas A; Gilbertson L;
Huard J; Kang J
CS Department of Orthopaedic Surgery, Children's Hospital, University of
Pittsburgh, Pittsburgh, Pennsylvania 15261, USA.
SO SPINE, (2001 Nov 1) 26 (21) 2316-22.
Journal code: 7610646. ISSN: 0362-2436.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200201
ED Entered STN: 20011029
Last Updated on STN: 20020125
Entered Medline: 20020108

=> D 8

L6 ANSWER 8 OF 21 MEDLINE
AN 2001397322 MEDLINE
DN 21341680 PubMed ID: 11448107
TI Regulation of gelatinase-A (MMP-2) production by ovine
intervertebral disc nucleus pulposus cells grown in
alginate bead culture by **Transforming Growth**
Factor-beta(1) and insulin like **growth factor**
-I.
AU Pattison S T; Melrose J; Ghosh P; Taylor T K
CS Institute of Bone and Joint Research, The Royal North Shore Hospital, St
Leonards, NSW, Australia.
SO CELL BIOLOGY INTERNATIONAL, (2001) 25 (7) 679-89.
Journal code: 9307129. ISSN: 1065-6995.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200110
ED Entered STN: 20011008
Last Updated on STN: 20011008

Entered Medline: 20011004

=> D 9

L6 ANSWER 9 OF 21 MEDLINE
AN 2001249758 MEDLINE
DN 21243776 PubMed ID: 11345640
TI **Transforming growth factor** beta receptor
induction in herniated **intervertebral disc** tissue: an
immunohistochemical study.
AU Tolonen J; Gronblad M; Virri J; Seitsalo S; Rytomaa T; Karaharju E
CS Research Laboratory, Spine Research Unit, Department of Orthopaedics and
Traumatology, Helsinki University Central Hospital, Helsinki, Finland.
SO EUROPEAN SPINE JOURNAL, (2001 Apr) 10 (2) 172-6.
Journal code: 9301980. ISSN: 0940-6719.
CY Germany: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200109
ED Entered STN: 20010917
Last Updated on STN: 20010917
Entered Medline: 20010913

=> D 10

L6 ANSWER 10 OF 21 MEDLINE
AN 2001048137 MEDLINE
DN 20491269 PubMed ID: 11034640
TI Human **intervertebral disc** cells are genetically
modifiable by adenovirus-mediated gene transfer: implications for the
clinical management of **intervertebral disc** disorders.
AU Moon S H; Gilbertson L G; Nishida K; Knaub M; Muzzonigro T; Robbins P D;
Evans C H; Kang J D
CS Musculoskeletal Research Center, Department of Orthopaedic Surgery,
University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania
15213, USA.
SO SPINE, (2000 Oct 15) 25 (20) 2573-9.
Journal code: 7610646. ISSN: 0362-2436.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200012
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001214

=> D 11

L6 ANSWER 11 OF 21 MEDLINE
AN 2000488826 MEDLINE
DN 20492919 PubMed ID: 11039775
TI Potential applications of gene therapy to the treatment of
intervertebral disc disorders.
AU Nishida K; Gilbertson L G; Robbins P D; Evans C H; Kang J D
CS Musculoskeletal Research Center, Department of Orthopaedic Surgery,
University of Pittsburgh, PA 15213, USA.
SO CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, (2000 Oct) (379 Suppl)
S234-41. Ref: 27
Journal code: 0075674. ISSN: 0009-921X.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, ACADEMIC)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 200011
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001103

=> D 12

L6 ANSWER 12 OF 21 MEDLINE
AN 2000155555 MEDLINE
DN 20155555 PubMed ID: 10693888
TI Association of **transforming growth factor**
betal genotype with spinal osteophytosis in Japanese women.
AU Yamada Y; Okuizumi H; Miyauchi A; Takagi Y; Ikeda K; Harada A
CS Department of Geriatric Research, National Institute for Longevity
Sciences, Morioka, Obu, Japan.
SO ARTHRITIS AND RHEUMATISM, (2000 Feb) 43 (2) 452-60.
Journal code: 0370605. ISSN: 0004-3591.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 200003
ED Entered STN: 20000320
Last Updated on STN: 20000320
Entered Medline: 20000309

=> D 13

L6 ANSWER 13 OF 21 MEDLINE
AN 2000091748 MEDLINE
DN 20091748 PubMed ID: 10626303
TI Modulation of the biologic activity of the rabbit **intervertebral disc** by gene therapy: an in vivo study of adenovirus-mediated transfer of the human **transforming growth factor beta 1** encoding gene.
AU Nishida K; Kang J D; Gilbertson L G; Moon S H; Suh J K; Vogt M T; Robbins P D; Evans C H
CS Department of Orthopaedic Surgery, University of Pittsburgh, Pennsylvania, USA.
SO SPINE, (1999 Dec 1) 24 (23) 2419-25.
Journal code: 7610646. ISSN: 0362-2436.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200002
ED Entered STN: 20000229
Last Updated on STN: 20000229
Entered Medline: 20000215

=> D 14

L6 ANSWER 14 OF 21 MEDLINE
AN 1999352581 MEDLINE
DN 99352581 PubMed ID: 10423782

TI Immunolocalization of bone morphogenetic protein and its receptors in
 degeneration of **intervertebral disc**.
 AU Takae R; Matsunaga S; Origuchi N; Yamamoto T; Morimoto N; Suzuki S; Sakou
 T
 CS Department of Physical Therapy, School of Allied Medical Sciences.
 SO SPINE, (1999 Jul 15) 24 (14) 1397-401.
 Journal code: 7610646. ISSN: 0362-2436.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199909
 ED Entered STN: 19991005
 Last Updated on STN: 20020420
 Entered Medline: 19990921

=> D 15

L6 ANSWER 15 OF 21 MEDLINE
 AN 97428270 MEDLINE
 DN 97428270 PubMed ID: 9281347
 TI Human **intervertebral disc** cells from the annulus:
 three-dimensional culture in agarose or alginate and responsiveness to
 TGF-beta1.
 AU Gruber H E; Fisher E C Jr; Desai B; Stasky A A; Hoelscher G; Hanley E N Jr
 CS Department of Orthopaedic Surgery, Carolinas Medical Center, Charlotte,
 North Carolina 28232, USA.. hgruber@carolinas.org
 SO EXPERIMENTAL CELL RESEARCH, (1997 Aug 25) 235 (1) 13-21.
 Journal code: 0373226. ISSN: 0014-4827.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199709
 ED Entered STN: 19971013
 Last Updated on STN: 19971013
 Entered Medline: 19970930

=> D 16

L6 ANSWER 16 OF 21 MEDLINE
 AN 95328004 MEDLINE
 DN 95328004 PubMed ID: 7604329
 TI Herniated **intervertebral disc**-associated periradicular
 fibrosis and vascular abnormalities occur without inflammatory cell
 infiltration.
 AU Cooper R G; Freemont A J; Hoyland J A; Jenkins J P; West C G; Illingworth
 K J; Jayson M I
 CS Department of Rheumatology, University of Manchester, United Kingdom.
 SO SPINE, (1995 Mar 1) 20 (5) 591-8.
 Journal code: 7610646. ISSN: 0362-2436.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199508
 ED Entered STN: 19950822
 Last Updated on STN: 19950822
 Entered Medline: 19950804

=> D 17

L6 ANSWER 17 OF 21 MEDLINE
 AN 91227960 MEDLINE
 DN 91227960 PubMed ID: 2028297
 TI Stimulation of mature canine **intervertebral disc** by
growth factors.
 AU Thompson J P; Oegema T R Jr; Bradford D S
 CS Department of Orthopaedic Surgery, University of Minnesota, Minneapolis.
 NC AR32145 (NIAMS)
 AR39255 (NIAMS)
 SO SPINE, (1991 Mar) 16 (3) 253-60.
 Journal code: 7610646. ISSN: 0362-2436.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199106
 ED Entered STN: 19910630
 Last Updated on STN: 19910630
 Entered Medline: 19910613

=> FIL STNGUIDE

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	ENTRY	SESSION
FULL ESTIMATED COST	9.28	9.91

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FULL ESTIMATED COST	0.24	10.15

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=> S INTERVERTEBRAL DISC AND GROWTH FACTOR?

L7 74 INTERVERTEBRAL DISC AND GROWTH FACTOR?

=> DUP REM L7

PROCESSING COMPLETED FOR L7

L8 53 DUP REM L7 (21 DUPLICATES REMOVED)

=> S L8 AND TRANSFORMING

L9 21 L8 AND TRANSFORMING

=> D 18

L9 ANSWER 18 OF 21 LIFESCI COPYRIGHT 2003 CSA
 AN 2001:71636 LIFESCI
 TI Age-dependent expression of **transforming growth**

factor beta 1 (TGF- beta 1) and its receptors, and age-related stimulatory effect of TGF- beta 1 on proteoglycan synthesis in rat intervertebral discs

AU Okuda, S.; Nakase, T.; Yonenobu, K.; Ariga, K.; Meng, W.; Ochi, T.; Yoshikawa, H.
CS Department of Orthopaedic Surgery (E3), Osaka University Medical School, 2-2 Yamadaoka, Suita, Osaka, 565-0871, Japan; E-mail: okuda@ort.med.osaka-u.ac.jp
SO Journal of Musculoskeletal Research [J. Musculoskeletal Res.], (20000900) vol. 4, no. 3, pp. 151-159.
ISSN: 0218-9577.
DT Journal
FS T
LA English
SL English

=> D 19

L9 ANSWER 19 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2003:110387 BIOSIS
DN PREV200300110387
TI Expression of type II procollagens during development of the human **intervertebral disc**.
AU McAlinden, A.; Zhu, Y.; Sandell, L. J. (1)
CS (1) Department of Orthopaedic Surgery, Washington University at Barnes-Jewish Hospital, 216 South Kingshighway, Mail Stop 90-34-674, Saint Louis, MO, 63110, USA: sandell1@msnotes.wustl.edu USA
SO Biochemical Society Transactions, (November 2002, 2002) Vol. 30, No. 6, pp. 831-838. print.
ISSN: 0300-5127.
DT Article
LA English

=> D 20

L9 ANSWER 20 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:607934 BIOSIS
DN PREV200200607934
TI Collagen gene expression in **intervertebral disc** development.
AU Sandell, Linda J. (1); Zhu, Yong (1); McAlinden, Audrey (1)
CS (1) Department of Orthopaedic Surgery, Washington University School of Medicine at Barnes-Jewish Hospital, 216 South Kingshighway, Saint Louis, MO, 63110 USA
SO Biochemical Society Transactions, (2002) Vol. 30, No. 5, pp. A111. print.
Meeting Info.: Biochemical Society 677th Meeting Wales, Cardiff, UK December 07-10, 2002
ISSN: 0300-5127.
DT Conference
LA English

=> D 21

L9 ANSWER 21 OF 21 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:317930 BIOSIS
DN PREV200200317930
TI mRNA expression of cytokines and chemokines in herniated lumbar intervertebral discs.
AU Ahn, Sang-Ho; Cho, Yoon-Woo; Ahn, Myun-Whan; Jang, Sung-Ho; Sohn, Yoon-Kyung; Kim, Hee-Sun (1)
CS (1) Department of Microbiology College of Medicine, Yeungnam University,

317-1 Daemyung-Dong Nam-Gu, Daegu, 705-717 South Korea
SO Spine, (May 1, 2002) Vol. 27, No. 9, pp. 911-917.
http://www.spinejournal.com/. print.
ISSN: 0362-2436.
DT Article
LA English

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

9.18

19.33

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LAST RELOADED: Apr 11, 2003 (20030411/UP).

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SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

1.32

20.65

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 16:23:40 ON 17 APR 2003

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
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NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
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NEWS	32	Apr 11	Display formats in DGENE enhanced
NEWS	33	Apr 14	MEDLINE Reload
NEWS EXPRESS			April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED <u>01 APRIL 2003</u>
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=> S ((BONE MORPHOGENIC PROTEIN 1) OR (bmp1)) AND DISC
L1 0 ((BONE MORPHOGENIC PROTEIN 1) OR (BMP1)) AND DISC

=> S BMP1
L2 94 BMP1

=> DUP REM L2
PROCESSING COMPLETED FOR L2
L3 48 DUP REM L2 (46 DUPLICATES REMOVED)

=> S L3 AND DISC
L4 0 L3 AND DISC

=> S L3 AND SPIN*
L5 0 L3 AND SPIN*

=> S L3 AND ARTHRODESIS
L6 0 L3 AND ARTHRODESIS

=> S L3 AND SPINE
L7 0 L3 AND SPINE

=> S L3 AND SPINAL
L8 1 L3 AND SPINAL

=> D 1

L8 ANSWER 1 OF 1 MEDLINE
AN 2002703233 IN-PROCESS
DN 22352451 PubMed ID: 12464431
TI Xolloid-related: a novel **BMP1**/Tolloid-related metalloprotease is expressed during early Xenopus development.
AU Dale Leslie; Evans Wayne; Goodman Shelley A
CS Department of Anatomy and Developmental Biology, University College London, Gower Street, WC1E 6BT, London, UK.
SO MECHANISMS OF DEVELOPMENT, (2002 Dec) 119 (2) 177-90.

Journal code: 9101218. ISSN: 0925-4773.

CY Ireland
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20021217
Last Updated on STN: 20021217

=> S L3 AND BACK
L9 0 L3 AND BACK

=> S L3 AND HERNIAT*
L10 0 L3 AND HERNIAT*

=> S BMP
L11 7224 BMP

=> S L11 AND BONE MORPHOGENIC
L12 438 L11 AND BONE MORPHOGENIC

=> DUP REM L12
PROCESSING COMPLETED FOR L12
L13 362 DUP REM L12 (76 DUPLICATES REMOVED)

=> S L13 AND DISC
L14 6 L13 AND DISC

=> D 1

L14 ANSWER 1 OF 6 MEDLINE
AN 2002714184 IN-PROCESS
DN 22296562 PubMed ID: 12408742
TI **BMP 2**--Genetics Institute/ Medtronic-Sofamor Danek/Integra. Bone morphogenetic protein 2--Genetics Institute/ Medtronic-Sofamor Danek/Integra, INFUSE Bone Graft, recombinant human bone morphogenetic protein 2--Genetics Institute/Medtronic-Sofamor Danek/Integra, RhBMP 2--Genetics Institute/Medtronic-Sofamor Danek/Integra.
AU Anonymous
SO BioDrugs, (2002) 16 (5) 376-7.
Journal code: 9705305. ISSN: 1173-8804.
CY New Zealand
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20021217
Last Updated on STN: 20021217

=> D 2

L14 ANSWER 2 OF 6 MEDLINE
AN 2001010413 MEDLINE
DN 20440771 PubMed ID: 10982651
TI Experimental anterior spine fusion using bovine bone morphogenetic protein: a study in rabbits.
AU Muschik M; Schlenzka D; Ritsila V; Tennstedt C; Lewandrowski K U
CS Orthopaedic Clinic of the Charite Hospital, Humboldt University, Berlin, Germany.
NC AR 45062 (NIAMS)
SO JOURNAL OF ORTHOPAEDIC SCIENCE, (2000) 5 (2) 165-70.
Journal code: 9604934. ISSN: 0949-2658.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)

LA English
FS Priority Journals
EM 200010
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20001020

=> D 3

L14 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:562799 BIOSIS
DN PREV200200562799
TI Confocal laser microscopy of chondrocytes that received gene transfer using in vitro electroporation.
AU Tsuru, Michiyo; Nagata, Kensei (1); Ueno, Takato; Jimi, Atsuo; Noda, Shinshi; Iida, Shizuka; Sata, Michio
CS (1) Department of Orthopaedic Surgery, Kurume University School of Medicine, 67 Asahi-machi, Kurume, 830-0011: michiyo@med.kurume-u.ac.jp Japan
SO Kurume Medical Journal, (2002) Vol. 49, No. 1-2, pp. 1-5. print.
ISSN: 0023-5679.
DT Article
LA English

=> D 4

L14 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:446957 BIOSIS
DN PREV200200446957
TI Biological disk replacement, **bone morphogenic** protein (BMP) carriers, and anti-adhesion materials.
AU Shamie, Nicholas (1)
CS (1) San Francisco, CA USA
ASSIGNEE: St. Francis Medical Technologies, Inc.
PI US 6416776 July 09, 2002
SO Official Gazette of the United States Patent and Trademark Office Patents, (July 9, 2002) Vol. 1260, No. 2, pp. No Pagination.
<http://www.uspto.gov/web/menu/patdata.html>. e-file..
ISSN: 0098-1133.
DT Patent
LA English

=> D 5

L14 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:394653 BIOSIS
DN PREV199900394653
TI Immunolocalization of bone morphogenetic protein and its receptors in degeneration of intervertebral **disc**.
AU Takae, Reiko; Matsunaga, Shunji (1); Origuchi, Nobuo; Yamamoto, Takuya; Morimoto, Norio; Suzuki, Shusaku; Sakou, Takashi
CS (1) Department of Orthopaedic Surgery, Faculty of Medicine, Kagoshima University, 8-35-1 Sakuragaoka, Kagoshima, 890-8520 Japan
SO Spine, (July 15, 1999) Vol. 24, No. 14, pp. 1397-1401.
ISSN: 0362-2436.
DT Article
LA English
SL English

=> D 6

L14 ANSWER 6 OF 6 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 1995:190498 BIOSIS
 DN PREV199598204798
 TI Elucidating BMP signaling by genetic approaches in Drosophila.
 AU Penton, Andrea; Chen, Yijing; Staehling-Hampton, Karen; Morimura, Shigeru;
 Rohwer-Nutter, Patricia; Jackson, P. David; Hoffmann, F. Michael
 CS McArdle Lab. Cancer Research, Madison, WI 53706 USA
 SO Journal of Cellular Biochemistry Supplement, (1995) Vol. 0, No. 19A, pp.
 341.
 Meeting Info.: Keystone Symposium on Genetic Networks Santa Fe, New
 Mexico, USA January 20-26, 1995
 ISSN: 0733-1959.
 DT Conference
 LA English

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=> S OSTEOGENIC PROTEIN 1
 L15 526 OSTEOGENIC PROTEIN 1

=> DUP REM L15
 PROCESSING COMPLETED FOR L15
 L16 316 DUP REM L15 (210 DUPLICATES REMOVED)

=> S L16 AND SPINAL
 L17 18 L16 AND SPINAL

=> S L17
 L18 18 L17

=> D 1

L18 ANSWER 1 OF 18 MEDLINE
 AN 2002700108 MEDLINE
 DN 22350489 PubMed ID: 12461396
 TI Successful transpedicular lumbar interbody fusion by means of a composite
 of osteogenic protein-1 (rhBMP-7) and

hydroxyapatite carrier: a comparison with autograft and hydroxyapatite in the sheep spine.

AU Blatter Thomas R; Delling Gunter; Dalal Paresh S; Toth Carol A; Balling Horst; Weckbach Arnulf
CS Trauma and Reconstructive Surgery, Wurzburg University Hospital, Germany.. blattert@chirurgie.uni-wuerzburg.de
SO SPINE, (2002 Dec 1) 27 (23) 2697-705.
Journal code: 7610646. ISSN: 1528-1159.
CY United States
DT (EVALUATION STUDIES)
Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200301
ED Entered STN: 20021217
Last Updated on STN: 20030116
Entered Medline: 20030115

=> D 2

L18 ANSWER 2 OF 18 MEDLINE
AN 2002700104 MEDLINE
DN 22350484 PubMed ID: 12461391
TI Randomized radiostereometric study comparing **osteogenic protein-1** (BMP-7) and autograft bone in human noninstrumented posterolateral lumbar fusion: 2002 Volvo Award in clinical studies.
AU Johnsson Ragnar; Stromqvist Bjorn; Aspenberg Per
CS Department of Orthopedics, Lund University Hospital, Lund, Sweden.. ragnarjohnsson@spray.se
SO SPINE, (2002 Dec 1) 27 (23) 2654-61.
Journal code: 7610646. ISSN: 1528-1159.
CY United States
DT (CLINICAL TRIAL)
Journal; Article; (JOURNAL ARTICLE)
(RANDOMIZED CONTROLLED TRIAL)
LA English
FS Priority Journals
EM 200301
ED Entered STN: 20021217
Last Updated on STN: 20030116
Entered Medline: 20030115

=> D 3

L18 ANSWER 3 OF 18 MEDLINE
AN 2002476262 MEDLINE
DN 22195149 PubMed ID: 12205422
TI Recombinant human **osteogenic protein-1** (bone morphogenetic protein-7) as an osteoinductive agent in **spinal** fusion.
AU Vaccaro Alexander R; Anderson D Greg; Toth Carol A
CS Department of Orthopaedic Surgery, Thomas Jefferson University, Philadelphia, Pennsylvania, USA.
SO SPINE, (2002 Aug 15) 27 (16 Suppl 1) S59-65. Ref: 26
Journal code: 7610646. ISSN: 1528-1159.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals

EM 200211
ED Entered STN: 20020920
Last Updated on STN: 20021213
Entered Medline: 20021121

=> D 3

L18 ANSWER 3 OF 18 MEDLINE
AN 2002476262 MEDLINE
DN 22195149 PubMed ID: 12205422
TI Recombinant human **osteogenic protein-1** (bone morphogenetic protein-7) as an osteoinductive agent in **spinal** fusion.
AU Vaccaro Alexander R; Anderson D Greg; Toth Carol A
CS Department of Orthopaedic Surgery, Thomas Jefferson University, Philadelphia, Pennsylvania, USA.
SO SPINE, (2002 Aug 15) 27 (16 Suppl 1) S59-65. Ref: 26
Journal code: 7610646. ISSN: 1528-1159.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 200211
ED Entered STN: 20020920
Last Updated on STN: 20021213.
Entered Medline: 20021121

=> D 4

L18 ANSWER 4 OF 18 MEDLINE
AN 2002448682 MEDLINE
DN 22195146 PubMed ID: 12205419
TI Safety profile for the clinical use of bone morphogenetic proteins in the spine.
AU Poynton Ashley R; Lane Joseph M
CS Department of Metabolic Bone Diseases, Hospital for Special Surgery, New York, New York 10021, USA.
SO SPINE, (2002 Aug 15) 27 (16 Suppl 1) S40-8. Ref: 59
Journal code: 7610646. ISSN: 1528-1159.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 200211
ED Entered STN: 20020904
Last Updated on STN: 20021212
Entered Medline: 20021121

=> D 5

L18 ANSWER 5 OF 18 MEDLINE
AN 2001427698 MEDLINE
DN 21368253 PubMed ID: 11474350
TI **Osteogenic protein-1** overcomes the inhibitory effect of nicotine on posterolateral lumbar fusion.
AU Patel T C; Erulkar J S; Grauer J N; Troiano N W; Panjabi M M; Friedlaender G E

CS Department of Orthopaedics and Rehabilitation, Yale University School of
Medicine, New Haven, Connecticut 06520-8071, USA.
SO SPINE, (2001 Aug 1) 26 (15) 1656-61.
Journal code: 7610646. ISSN: 0362-2436.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200109
ED Entered STN: 20010917
Last Updated on STN: 20010917
Entered Medline: 20010913

=> D 6

L18 ANSWER 6 OF 18 MEDLINE
AN 2000164903 MEDLINE
DN 20164903 PubMed ID: 10699444
TI CNS plasticity and assessment of forelimb sensorimotor outcome in
unilateral rat models of stroke, cortical ablation, parkinsonism and
spinal cord injury.
AU Schallert T; Fleming S M; Leasure J L; Tillerson J L; Bland S T
CS Department of Psychology and Institute for Neuroscience, University of
Texas at Austin, Mezes 330, Austin, TX 78712, USA..
tschallert@mail.utexas.edu
NC AA07471 (NIAAA)
NS23979 (NINDS)
SO NEUROPHARMACOLOGY, (2000 Mar 3) 39 (5) 777-87.
Journal code: 0236217. ISSN: 0028-3908.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200004
ED Entered STN: 20000421
Last Updated on STN: 20000421
Entered Medline: 20000412

=> D 7

L18 ANSWER 7 OF 18 MEDLINE
AN 1999345202 MEDLINE
DN 99345202 PubMed ID: 10418861
TI Preclinical and clinical evaluation of **osteogenic**
protein-1 (BMP-7) in bony sites.
CM Comment in: Orthopedics. 1999 Jul;22(7):659-60
AU Cook S D
CS Department of Orthopedic Surgery, Tulane University School of Medicine,
New Orleans, LA 70112-2699, USA.
SO ORTHOPEDICS, (1999 Jul) 22 (7) 669-71. Ref: 10
Journal code: 7806107. ISSN: 0147-7447.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 199909
ED Entered STN: 19991005
Last Updated on STN: 19991005
Entered Medline: 19990921

=> D 8

L18 ANSWER 8 OF 18 MEDLINE
AN 1999268599 MEDLINE
DN 99268599 PubMed ID: 10338277
TI Effects of **osteogenic protein-1** (OP-1)
treatment on fetal **spinal** cord transplants to the anterior
chamber of the eye.
AU Granholm A C; Sanders L A; Ickes B; Albeck D; Hoffer B J; Young D A;
Kaplan P L
CS Department of Basic Science, University of Colorado Health Sciences
Center, Denver 80262, USA.. granholm@uchsc.edu
NC AG04418 (NIA)
AG12122 (NIA)
AG15239 (NIA)
+
SO CELL TRANSPLANTATION, (1999 Jan-Feb) 8 (1) 75-85.
Journal code: 9208854. ISSN: 0963-6897.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199907
ED Entered STN: 19990727
Last Updated on STN: 19990727
Entered Medline: 19990715

=> D 9

L18 ANSWER 9 OF 18 MEDLINE
AN 1999247515 MEDLINE
DN 99247515 PubMed ID: 10232555
TI The safety of OP-1 for lumbar fusion with decompression-- a canine study.
AU Paramore C G; Laurysen C; Rauzzino M J; Wadlington V R; Palmer C A; Brix
A; Cartner S C; Hadley M N
CS Department of Surgery, The University of Alabama at Birmingham, USA.
SO NEUROSURGERY, (1999 May) 44 (5) 1151-5; discussion 1155-6.
Journal code: 7802914. ISSN: 0148-396X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199906
ED Entered STN: 19990712
Last Updated on STN: 19990712
Entered Medline: 19990624

=> D 10

L18 ANSWER 10 OF 18 MEDLINE
AN 1999202040 MEDLINE
DN 99202040 PubMed ID: 10101812
TI Osteogenic protein versus autologous interbody arthrodesis in the sheep
thoracic spine. A comparative endoscopic study using the Bagby and Kuslich
interbody fusion device.
AU Cunningham B W; Kanayama M; Parker L M; Weis J C; Seftor J C; Fedder I L;
McAfee P C
CS Union Memorial Hospital Orthopaedic Biomechanics Laboratory, Baltimore,
Maryland, USA.. bcspine@aol.com
SO SPINE, (1999 Mar 15) 24 (6) 509-18.
Journal code: 7610646. ISSN: 0362-2436.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199907
ED Entered STN: 19990727
Last Updated on STN: 20000303
Entered Medline: 19990715

=> D 11

L18 ANSWER 11 OF 18 MEDLINE
AN 1999097107 MEDLINE
DN 99097107 PubMed ID: 9880400
TI **Osteogenic protein-1** protects against
cerebral infarction induced by MCA ligation in adult rats.
AU Lin S Z; Hoffer B J; Kaplan P; Wang Y
CS Department of Pharmacology and Neurosurgery, National Defense Medical
Center, Taipei, Taiwan.
NC AG-04418 (NIA)
SO STROKE, (1999 Jan) 30 (1) 126-33.
Journal code: 0235266. ISSN: 0039-2499.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199902
ED Entered STN: 19990223
Last Updated on STN: 20000303
Entered Medline: 19990208

=> D 12

L18 ANSWER 12 OF 18 MEDLINE
AN 1998393028 MEDLINE
DN 98393028 PubMed ID: 9726427
TI Potentiating interactions between morphogenetic protein and neurotrophic
factors in developing neurons.
AU Bengtsson H; Soderstrom S; Kylberg A; Charette M F; Ebendal T
CS Department of Neuroscience, Uppsala University, Biomedical Center,
Sweden.. henrik.bengtsson@mun.uu.se
SO JOURNAL OF NEUROSCIENCE RESEARCH, (1998 Sep 1) 53 (5) 559-68.
Journal code: 7600111. ISSN: 0360-4012.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199810
ED Entered STN: 19990106
Last Updated on STN: 20020420
Entered Medline: 19981029

=> D 13

L18 ANSWER 13 OF 18 MEDLINE
AN 96392359 MEDLINE
DN 96392359 PubMed ID: 8799147
TI Induction of nephrogenic mesenchyme by **osteogenic
protein 1** (bone morphogenetic protein 7).
AU Vukicevic S; Kopp J B; Luyten F P; Sampath T K
CS Department of Anatomy, School of Medicine, Zagreb, Croatia.

SO PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF
AMERICA, (1996 Aug 20) 93 (17) 9021-6.
Journal code: 7505876. ISSN: 0027-8424.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199610
ED Entered STN: 19961219
Last Updated on STN: 19980206
Entered Medline: 19961031

=> D 14

L18 ANSWER 14 OF 18 MEDLINE
AN 96175290 MEDLINE
DN 96175290 PubMed ID: 8595770
TI **Osteogenic protein-1**: biology and
applications.
AU Cook S D; Rueger D C
CS Department of Orthopaedic Surgery, Tulane University School of Medicine,
New Orleans, LA, USA.
SO CLINICAL ORTHOPAEDICS AND RELATED RESEARCH, (1996 Mar) (324) 29-38. Ref:
45
Journal code: 0075674. ISSN: 0009-921X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Abridged Index Medicus Journals; Priority Journals; Space Life Sciences
EM 199604
ED Entered STN: 19960424
Last Updated on STN: 19980206
Entered Medline: 19960416

=> D 15

L18 ANSWER 15 OF 18 MEDLINE
AN 95064254 MEDLINE
DN 95064254 PubMed ID: 7973957
TI In vivo evaluation of recombinant human osteogenic protein (rhOP-1)
implants as a bone graft substitute for **spinal** fusions.
AU Cook S D; Dalton J E; Tan E H; Whitecloud T S 3rd; Rueger D C
CS Department of Orthopaedic Surgery, Tulane School of Medicine, New Orleans,
Louisiana.
SO SPINE, (1994 Aug 1) 19 (15) 1655-63.
Journal code: 7610646. ISSN: 0362-2436.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199412
ED Entered STN: 19950110
Last Updated on STN: 19980206
Entered Medline: 19941207

=> D 16

L18 ANSWER 16 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:97169 BIOSIS

DN PREV200100097169
 TI Specific receptors for bone morphogenetic protein-7/**osteogenic protein-1** in rat and human brain.
 AU Dattatreyamurty, B. (1); Roux, E. C.; Higgins, D. M.; Kaplan, P. L.
 CS (1) Creative BioMolecules, Inc., Hopkinton, MA USA
 SO Society for Neuroscience Abstracts, (2000) Vol. 26, No. 1-2, pp. Abstract No.-412.3. print.
 Meeting Info.: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000 Society for Neuroscience
 . ISSN: 0190-5295.
 DT Conference
 LA English
 SL English

=> D 17

L18 ANSWER 17 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 2000:145896 BIOSIS
 DN PREV2000000145896
 TI Cerebrospinal fluid (CSF) contains bone morphogenetic protein-7 (BMP-7).
 AU Dattatreyamurty, B. (1); Roux, E. (1); Kaplan, P. L. (1); Higgins, D.; Lein, P. J.; Chandrasekaran, V.
 CS (1) Creative Biomolecules, Hopkinton, MA USA
 SO Society for Neuroscience Abstracts., (1999) Vol. 25, No. 1-2, pp. 1274.
 Meeting Info.: 29th Annual Meeting of the Society for Neuroscience. Miami Beach, Florida, USA October 23-28, 1999 Society for Neuroscience
 . ISSN: 0190-5295.
 DT Conference
 LA English
 SL English

=> D 18

L18 ANSWER 18 OF 18 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
 AN 1999:81379 BIOSIS
 DN PREV199900081379
 TI **Osteogenic protein-1** affects the survival of motor neurons in intraocular **spinal** cord transplants.
 AU Sanders, L. A. (1); Granholm, A.-C. (1); Hoffer, B. J.; Kaplan, P.
 CS (1) Dep. Basic Sci., Univ. Colo. Health Sci. Cent., Denver, CO 80262 USA
 SO Society for Neuroscience Abstracts, (1998) Vol. 24, No. 1-2, pp. 1780.
 Meeting Info.: 28th Annual Meeting of the Society for Neuroscience, Part 2 Los Angeles, California, USA November 7-12, 1998 Society for Neuroscience
 . ISSN: 0190-5295.
 DT Conference
 LA English

=> LOGOFF HOLD

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
31.01	46.06

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- L3: (213086) BMP NEAR1
- L4: (213112) BMP near
- L5: (7) BMP near10 dis

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1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5956719	19990921	19	Synchronization method applied to databases in network management system	707
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5769895	19980623		Delivery system for biologically active growth or morphogenetic factors and a meth	128
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5675557	19971007		Integrated mixing system for synchronizing video and audio signals	369
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 5443531	19950822		Delivery system for biologically active growth or morphogenetic factors and to a m	600
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4789732	19881206		Bone morphogenetic protein composition	530
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4761471	19880802		Bone morphogenetic protein composition	530
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 4619989	19861028		Bone morphogenetic protein composition	530

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